

Ayush Lahiri

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App Dev Lead at GDG IIIT Kalyani, skilled in mobile app creation and machine learning. Successfully created and tested ML-Models in Deep Reinforcement Learning, Non- Graph SVM for cancer detection with 0.3% Type-II Error.

Projects

- Implemented **Custom Model Based Deep-RL** from scratch for inverted-pendulum. The RL model being able to maintain the desired state with **±3% Margin of error** in Angle. Trained completely on synthetic data.
- Implemented a **Transformer LM** from scratch(**Tokenizer and transformer**) using only numpy. Trained on **TinyStories Dataset**.
- Designed and Implemented **Custom R.B.F Kernel S.V.M. for breast cancer detection** at **~97.6% accuracy and 0.3% False Negative**(Type-II Error). Pushing past the initial boundary of 95.4% accuracy achieved by standard Neural Network.
- Designed and implemented an **Autograd engine** from scratch with **secondary data-structure and complex ops support**.

Skills

- **Languages: Python, Java, C**
- **Developer Tools & Libraries: NumPy, Pandas, Git**
- **Core Theory: Data Structures, Algorithms, OS**
- **Artificial Intelligence: Supervised, Unsupervised, Reinforcement Learning**

Education

- **India Institute of Information Technology, Kalyani – B.Tech(CSE)**
8.6 CGPA JUN-2029
- **MIA – Senior Secondary(PCM)**
78.4% in CBSE Boards MAY-2025
- **Carmel School – Secondary(E+PCMB+C.S+ARTS)**
93.4% IN CISCE Board MAY-2023

Achievement

- **App Dev Lead**
GDG IIIT Kalyani, Kalyani, India *October 2025-Current*
 - Designed demo user interfaces that engaged multiple users and produced immersive demo experiences.
 - Spearheaded Technical workshop about app development lifecycle for 80+ students.
- **LeetCode** - 1620 contest rating and 100+ Problem
- **Finalist in multiple hackathons(Innovate-X, BotBalls-Top4, Code Canvas)**